

## SEQUENCE LISTING

## 10> Pharmacia & Upjohn

<120> Novel Vitamin D Receptor Related Polypeptides, Nucleic Acid Sequence Encoding the Same and Uses Thereof

<130> 10806-65

<140> US 09/143,828

<141> 1998-08-31

<160> 4

<170> PatentIn Ver. 2.0

<210> 1

<211> 2905

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: [cDNA of encoding sequence of vitamin D receptor related gamma (VDRRg)]

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<210> 2 <211> 434 <212> PRT

<213> Artificial Sequence

<223> Description of Artificial Sequence: [Deduced amino acid sequence of vitamin D receptor related gamma (VDRRg)]

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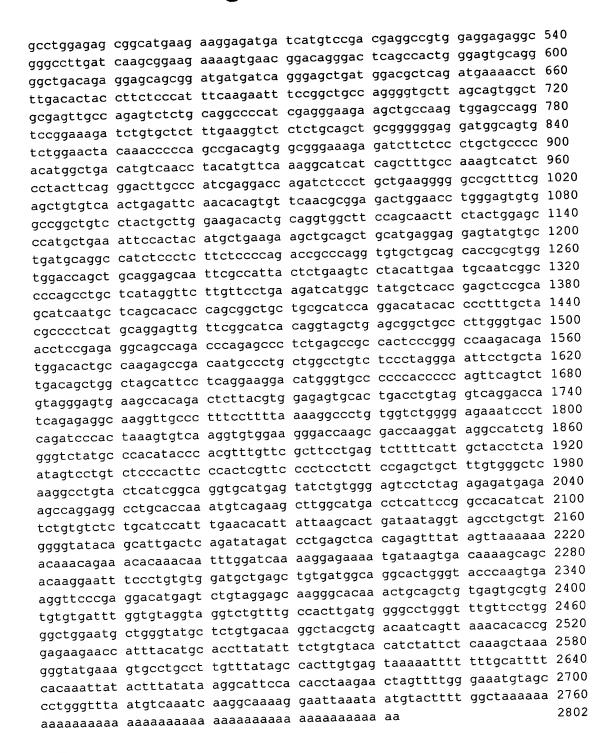
Cys Glu Asp Thr Glu Ser Val Pro Gly Lys Pro Ser Val Asn Ala Asp

Glu Glu Val Gly Gly Pro Gln Ile Cys Arg Val Cys Gly Asp Lys Ala 40

Thr Gly Tyr His Phe Asn Val Met Thr Cys Glu Gly Cys Lys Gly Phe Phe Arg Arg Ala Met Lys Arg Asn Ala Arg Leu Arg Cys Pro Phe Arg Lys Gly Ala Cys Glu Ile Thr Arg Lys Thr Arg Arg Gln Cys Gln Ala Cys Arg Leu Arg Lys Cys Leu Glu Ser Gly Met Lys Lys Glu Met Ile Met Ser Asp Glu Ala Val Glu Glu Arg Arg Ala Leu Ile Lys Arg Lys Lys Ser Glu Arg Thr Gly Thr Gln Pro Leu Gly Val Gln Gly Leu Thr Glu Glu Gln Arg Met Met Ile Arg Glu Leu Met Asp Ala Gln Met Lys Thr Phe Asp Thr Thr Phe Ser His Phe Lys Asn Phe Arg Leu Pro Gly Val Leu Ser Ser Gly Cys Glu Leu Pro Glu Ser Leu Gln Ala Pro Ser Arg Glu Glu Ala Ala Lys Trp Ser Gln Val Arg Lys Asp Leu Cys Ser Leu Lys Val Ser Leu Gln Leu Arg Gly Glu Asp Gly Ser Val Trp Asn Tyr Lys Pro Pro Ala Asp Ser Gly Gly Lys Glu Ile Phe Ser Leu Leu Pro His Met Ala Asp Met Ser Thr Tyr Met Phe Lys Gly Ile Ile Ser Phe Ala Lys Val Ile Ser Tyr Phe Arg Asp Leu Pro Ile Glu Asp Gln Ile Ser Leu Leu Lys Gly Ala Ala Phe Glu Leu Cys Gln Leu Arg Phe Asn Thr Val Phe Asn Ala Glu Thr Gly Thr Trp Glu Cys Gly Arg Leu

Ser Tyr Cys Leu Glu Asp Thr Ala Gly Gly Phe Gln Gln Leu Leu 315 310 305 Glu Pro Met Leu Lys Phe His Tyr Met Leu Lys Lys Leu Gln Leu His 330 325 Glu Glu Glu Tyr Val Leu Met Gln Ala Ile Ser Leu Phe Ser Pro Asp 345 340 Arg Pro Gly Val Leu Gln His Arg Val Val Asp Gln Leu Gln Glu Gln 360 355 Phe Ala Ile Thr Leu Lys Ser Tyr Ile Glu Cys Asn Arg Pro Gln Pro 375 Ala His Arg Phe Leu Phe Leu Lys Ile Met Ala Met Leu Thr Glu Leu 390 Arg Ser Ile Asn Ala Gln His Thr Gln Arg Leu Leu Arg Ile Gln Asp 410 405 Ile His Pro Phe Ala Thr Pro Leu Met Gln Glu Leu Phe Gly Ile Thr 425 420 Gly Ser <210> 3 <211> 2802 <212> DNA <213> Artificial Sequence <220> <223> Description of Artificial Sequence: [cDNA of encoding sequence of vitamin D receptor related gamma-2 (VDRRg-2)] tgaattcgtg ggcctgctgg gttagtgctg gcagcccccc tgaggccaag gacagcagca 60 tgacagtcac caggactcac cacttcaagg aggggtccct cagagcacct gccatacccc 120 tgcacagtgc tgcggctgag ttggcttcaa accatccaag aggcccagaa gcaaacctgg 180 aggtgagacc caaagaaagc tggaaccatg ctgactttgt acactgtgag gacacagagt 240 ctgttcctgg aaagcccagt gtcaacgcag atgaggaagt cggaggtccc caaatctgcc 300 gtgtatgtgg ggacaaggcc actggctatc acttcaatgt catgacatgt gaaggatgca 360

agggettttt caggagggec atgaaacgca acgeeegget gaggtgeeee tteeggaagg 420 gegeetgega gateaeeegg aagaeeegge gacagtgeea ggeetgeege etgegeaagt 480



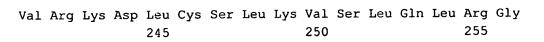
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<210> 4
<211> 473
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<220>

<223> Description of Artificial Sequence: [Deduced amino acid sequence of vitamin D receptor related

## gamma-2 (VDRRg-2) }

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Pro	Arg	Gly 35	Pro	Glu	Ala	Asn	Leu 40	Glu	Val	Arg	Pro	Lys 45	Glu	Ser	Trp
Asn	His 50	Ala	Asp	Phe	Val	His 55	Cys	Glu	Asp	Thr	Glu 60	Ser	Val	Pro	Gly
Lys 65	Pro	Ser	Val	Asn	Ala 70	Asp	Glu	Glu	Val	Gly 75	Gly	Pro	Gln	Ile	Cys 80
Arg	Val	Суз	Gly	Asp 85		Ala	Thr	Gly	Tyr 90	His	Phe	Asn	Val	Met 95	Thr
Cys	Glu	Gly	Cys	Lys	Gly	Phe	Phe	Arg	Arç	Ala	Met	Lys	Arg 110	Asn	Ala
Arg	, Le	11!		s Pro	Phe	e Arg	120	Gly	/ Ala	a Cys	s Glu	11e	Thr	Arg	Lys
Thr	130		g Glı	n Cys	s Glr	135		arç	g Le	ı Ar	g Lys 140	Cys	s Leu	Glu	Ser
Gl <u>y</u> 145		t Ly	s Ly	s Glı	1 Met		e Met	z Sei	r As	p Gl	u Ala 5	a Val	l Glu	ı Glu	160
Ar	g Al	a Le	u Il	e Ly: 16		g Ly:	s Ly:	s Se	r Gl 17	u Ar O	g Thi	r Gly	y Thi	f Glr 175	n Pro
Le	u Gl	y Va	1 Gl 18		y Le	u Th	r Gl	u Gl 18	u Gl 5	n Ar	g Me	t Me	t Ile 190	e Arq	g Glu
Le	u Me	et As	_	a Gl	n Me	t Ly	s Th 20	r Ph	e As	sp Th	ır Th	r Ph 20	e Se: 5	r Hi:	s Phe
Ly		sn Pl	ne Ai	rg Le	eu Pr	o Gl 21	.y Va .5	ıl Le	eu Se	er Se	er Gl 22	у Су 0	s Gl	u Le	u Pro
	Lu Se 25	er L	eu G	ln Al	la Pr 23		er Ar	g Gl	Lu G	lu A. 2:	la Al 35	a Ly	s Tr	p Se	r Glr 240



Glu Asp Gly Ser Val Trp Asn Tyr Lys Pro Pro Ala Asp Ser Gly Gly 260 265 270

Lys Glu Ile Phe Ser Leu Leu Pro His Met Ala Asp Met Ser Thr Tyr 275 280 285

Met Phe Lys Gly Ile Ile Ser Phe Ala Lys Val Ile Ser Tyr Phe Arg 290 295 300

Asp Leu Pro Ile Glu Asp Gln Ile Ser Leu Leu Lys Gly Ala Ala Phe 305 310 315 320

Glu Leu Cys Gln Leu Arg Phe Asn Thr Val Phe Asn Ala Glu Thr Gly 325 330 335

Thr Trp Glu Cys Gly Arg Leu Ser Tyr Cys Leu Glu Asp Thr Ala Gly 340 345 350

Gly Phe Gln Gln Leu Leu Glu Pro Met Leu Lys Phe His Tyr Met 355 360 365

Leu Lys Lys Leu Gln Leu His Glu Glu Glu Tyr Val Leu Met Gln Ala 370 375 380

Ile Ser Leu Phe Ser Pro Asp Arg Pro Gly Val Leu Gln His Arg Val 385 390 395 400

Val Asp Gln Leu Gln Glu Gln Phe Ala Ile Thr Leu Lys Ser Tyr Ile 405 410 415

Glu Cys Asn Arg Pro Gln Pro Ala His Arg Phe Leu Phe Leu Lys Ile 420 425 430

Met Ala Met Leu Thr Glu Leu Arg Ser Ile Asn Ala Gln His Thr Gln 435 440 445

Arg Leu Leu Arg Ile Gln Asp Ile His Pro Phe Ala Thr Pro Leu Met 450 455 460

Gln Glu Leu Phe Gly Ile Thr Gly Ser 465 470